

**ABSTRACT**

The present invention relates to a method for removing neoplastic cells from a mixed cellular composition, which is outside of a living organism, by using a virus which selectively infect and kill neoplastic cell. A variety of viruses can be used in this method to  
5 remove neoplastic cells for different purposes, for example, to purge hematopoietic stem cells prior to transplantation. Also provided are compositions prepared according to this method, and kits comprising a combination of viruses which are useful in this invention.

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